

ABSTRACT

Methods and devices for measuring elongation, wear, and internal temperature of a conveyor belt to catch signs of conveyor belt failure such as breakage by detecting a magnetic field from a magnetic body by using a magnesium sensor, as well as a rubber magnet sheet as a magnetic body and a method of producing the sheet, the rubber magnet sheet being able to be used while it is embedded in the conveyor belt. To measure elongation of a running conveyor belt (11), a magnetic field of a magnetic body (2) embedded in the belt (11) is detected by a magnetism sensor (3) fixed to the earth, and elongation of the belt (11) is calculated from temporal variation of the detected magnetic field.